

# HISTORIC AMERICAN ENGINEERING RECORD

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BIG CREEK HYDROELECTRIC SYSTEM, POWERHOUSE 3                      HAER CA-167-H  
(Big Creek No. 3)  
San Joaquin River, near confluence of Italian Bar Road and Million  
Dollar Road  
Big Creek vicinity  
Fresno County  
California

Photographs CA-167-H-43 through CA-167-H-53 are 8" x 10" contact prints from film copy negatives of paper digital scan printouts. The paper printouts are approximately 22" x 36". No original drafted line drawings were available for HAER copy work. The scan printouts copied for this project were made from microfilm and other secondary sources. Original materials are held at the Southern California Edison Company archives, 2244 Walnut Grove Avenue, Rosemead, California, 91770.

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David G DeVries, photographer, 2009

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| CA-167-H-1 | Context view from Million Dollar Road above, looking down on Powerhouse 3, switchyard, club house, and the San Joaquin River.             |
| CA-167-H-2 | Powerhouse 3 and penstocks as seen from the rear of the club house, looking east over the switchyard.                                     |
| CA-167-H-3 | North front, showing tailraces in the foreground. At the time of this photograph, the tailrace pool had been drained for routine service. |
| CA-167-H-4 | Perspective view, north and west elevations.  |
| CA-167-H-5 | West side, looking east down the bridge and rail spur.  |
| CA-167-H-6 | Access bridge over Mill Creek, to southwest.  |
| CA-167-H-7 | West pedestrian entrance to the powerhouse and north entrance to the machine shop.  |

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| CA-167-H-8  | Oblique view of west elevation of machine shop from the rail spur bridge.  |
| CA-167-H-9  | South rear, west part. Looking northwest, also showing the east wall of the machine shop at left, and the Unit 1 penstock. |
| CA-167-H-10 | Central part of the south rear, looking north.   |
| CA-167-H-11 | Oblique view of the south rear, east part.   |
| CA-167-H-12 | Porch at east end of north front, leading to transformer deck.<br>View to west.  |
| CA-167-H-13 | North front, east part, showing various window styles and porch that will be altered, looking south.                       |
| CA-167-H-14 | North front, central part, showing windows and parapet.  |
| CA-167-H-15 | North front, west part,. Looking south at station service bank.  |
| CA-167-H-16 | Rail spur, north edge of transformer deck, looking west from the east end.   |
| CA-167-H-17 | Bird's eye view to east of generator floor, from the stairwell at the northwest corner.                                    |
| CA-167-H-18 | Oblique view of generator floor from the southwest corner, looking northeast at Unit 1, roof trusses, and windows.         |
| CA-167-H-19 | Generator floor, looking southeast from the west end, with Unit 1 in foreground.   |
| CA-167-H-20 | Generator floor, east part.  |
| CA-167-H-21 | Looking across the west end of the generator floor into the machine shop.  |
| CA-167-H-22 | Generator floor, looking southeast at Unit 3.  |
| CA-167-H-23 | Lower level of generator floor, showing Unit 2 generator, and Units 1 and 2 governor oil/air cushion tanks, at upper left. |
| CA-167-H-24 | Lower level, generator floor, view to west from Unit 3.  |
| CA-167-H-25 | View from upper generator floor, looking down at Unit 4 penstock valve.  |
| CA-167-H-26 | Unit 4 governor, control cabinet, and oil pump tanks.  |

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| CA-167-H-27 | Detail, typical door, transom window, and large windows, looking north from the generator floor.  |
| CA-167-H-28 | Control room corridor, west part, showing stairway access to mezzanine overlooking generator floor.   |
| CA-167-H-29 | Control room corridor, east part, showing control room door in distance.  |
| CA-167-H-30 | Control room, view to west.   |
| CA-167-H-31 | Overview of machine shop, looking to the south from the north end.  |
| CA-167-H-32 | Machine shop, east part, along the north wall, showing clerestory windows in sawtooth roof design.  |
| CA-167-H-33 | Machine shop, looking towards the northwest corner.   |
| CA-167-H-34 | Machine shop, northeast part, showing crane and office.   |
| CA-167-H-35 | Oblique view of machine shop, looking southwest.  |
| CA-167-H-36 | Second floor mezzanine, looking east down corridor. Generator Units 1 and 2 are visible below on right.   |
| CA-167-H-37 | Basement view, looking east at turbine shutoff valve below generator floor.   |
| CA-167-H-38 | Looking west at turbine shutoff valve.  |
| CA-167-H-39 | Northeast view of oil room beneath generator floor.   |
| CA-167-H-40 | Records storage room, west part, below the generator floor.   |
| CA-167-H-41 | East elevation of historic Powerhouse 3 switchyard, looking west over Mill Creek from the machine shop.   |
| CA-167-H-42 | North elevation of switchyard from west end of access bridge.   |
| CA-167-H-43 | Big Creek Powerhouse 3, North Elevation, Tail Race Side. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 12/19/1922. Drawing no. 58169-1. |

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| CA-167-H-44 | Big Creek Powerhouse 3, South Elevation, Penstock Side. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 12/19/1922. Drawing no. 58168-3.                                      |
| CA-167-H-45 | Big Creek Powerhouse 3, Permanent West End and Temporary East End Elevations. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 12/15/1922. Drawing no. 58171.                  |
| CA-167-H-46 | Big Creek Powerhouse 3, Steel Framing Diagrams Showing North, South, East and West Elevations. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 10/12/1922. Drawing no. 58160. |
| CA-167-H-47 | Big Creek Powerhouse 3, First Floor Architectural Plan. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 2/7/1979. Drawing no. 58114-11.                                       |
| CA-167-H-48 | Big Creek Powerhouse 3, Second Floor and Roof Architectural Plans. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 12/19/1922. Drawing no. 58170.                             |
| CA-167-H-49 | Big Creek Powerhouse 3, New East End of Building at Unit 4. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale varies. From Microfilm. Dated 3/20/1947. Drawing no. 524702-0.  |
| CA-167-H-50 | Big Creek Powerhouse 3, Longitudinal Sections. Longitudinal sections A-A and B-B. Original scale 1/8 inch to the foot. From Microfilm. Dated 12/19/1922. Drawing no. 58166.   |
| CA-167-H-51 | Big Creek Powerhouse 3, Traverse Sections. Traverse sections E-E, D-D, and C-C. Original scale 1/8 inch to the foot. From Microfilm. Dated 12/13/1922. Drawing no. 58167-3.   |

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- CA-167-H-52      Big Creek Powerhouse 3, Architectural Details Outside Doors.  
Southern California Edison Co. Dept. of Engineering Design,  
Los Angeles, California. Original scale 1 inch to the foot. From  
Microfilm. Dated 3/5/1923. Drawing no. 57976.
- CA-167-H-53      Big Creek Powerhouse 3, Machine Shop Elevations and Details.  
Southern California Edison Co. Dept. of Engineering Design,  
Los Angeles, California. Original scale 1 inch to the foot. From  
Microfilm. Dated 6/23/1946?. Drawing no. 524314-0.